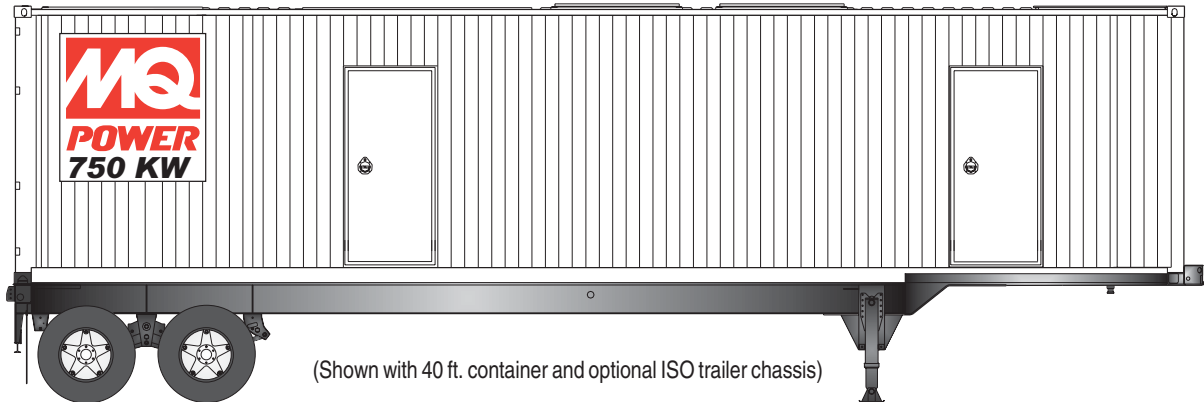




# 750kW Containerized Diesel Generator Set

Model	Emissions	Standby Rating	Prime Rating
EGC-750C	EPA Certified	60 Hertz	
		750kW (937kVA)	600kW (750kVA)



## Standard Features

### Cummins Heavy Duty Diesel Engine

- 4-cycle design, turbocharged, aftercooled, direct injection
- Polymide blade cooling fan
- Engine coolant heater
- Meets EPA emissions standards for mobile off-highway

### Fuel System

- 1000 gallon, single wall fuel tank
- Fuel priming system
- Fuel/water separators and drip pan
- Electric fuel pump
- External fuel fill
- 30 micron Racor® fuel filter system

### Alternator

- Brushless, 4-pole, synchronous, WYE connection
- Class H insulation system conforms to NEMA MG1-22, BS5000, CSA-C22-2, IEC-34-1 standards for temperature rise
- Drip-proof, self-venting, amortisseur windings
- Epoxy impregnated windings with tropical insulation for increased environmental protection and long life

### Electronic Voltage Regulator

- Electronic automatic voltage regulator provides precise regulation
- Separate three-phase excitation for fast recovery from block loads and motor starting

### Full Load Acceptance

- Accepts 100% of standby nameplate rating in one step, in compliance with NFPA, para 5-13.2.6

### Generator Control Panel

- Intelligen™ vibration-isolated controller
- Manual or remote engine start/stop
- RS232/Modbus communication support
- Safety shutdowns
- Externally mounted emergency stop switch
- Generator mainline circuit breaker, 100% rated electronically operated, UL listed

### Specially Designed Container

- 40 ft. ISO container, sound-attenuated, foam-lined for extremely quiet operation
- Isolated operator control room
- Solidly mounted battery rack and cooling system
- Integral vibration isolators
- Exterior polyurethane coating system provides long life in extreme operating conditions
- Interior DC lights and timer switch
- Critical grade silencer with heat blankets

### Warranty

- Engine-generator sets are covered by an express written, one-year limited warranty



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## APPLICATION DATA

<b>Alternator Specifications</b>	
Make	Marathon Magna Max
Type	4-Pole, Rotating Field
Number of Leads	10 or 12
Generator Type	Rotating Field; PMG
Voltage Regulator	Solid State, Digital, Model DVR2000
Insulation	NEMA MG1-1.66
Material	Class H
Temperature Rise	Standby Rating: 125° C Prime Rating: 105° C
Bearing: Number, Type	Single, Sealed
Coupling	Flexible Disk
Amortisseur Windings	Full
Excitation	Voltage Regulated, Brushless
Voltage Regulation (no load to full load)	0.25%
One Step Load Acceptance % of rating per NFPA-110	100
Generator Efficiency at Full Load	93%
Phase Sequence	ABC (L1, L2, L3)
L-L Harmonic Max Total	5.0%
L-L Harmonic Max Single	3.0%

The EGC750C Sound Attenuated Generator is configured for standard 60 Hz, 208V and 480V output. Special voltage outputs are available (special order).

### Alternator Features

- All ratings tested per MIL-STD-705 as applicable.
- Generator protection for overload and short circuit.
- Generator is designed and built within NEMA, IEEE and ANSI standards for temperature rise.
- PMG exciter for superior regulation and response.
- Three phase sensing on regulator with EMI protection.
- Skewed rotor for smooth voltage wave form.
- Vacuum impregnated epoxy varnish - Fungus resistant per MIL-I-24092.
- Sustain short circuit current at 300% of rated current up to 10 seconds.

<b>Engine Specifications</b>	
Manufacturer/Model	Cummins QST30-G1
Engine Type	4-cycle, Turbocharged, Aftercooled
Cylinder Arrangement	V12
Displacement	1860 in <sup>3</sup> (30.5 L)
Bore	5.51 in. (140 mm)
Stroke	6.50 in. (165 mm)
Compression Ratio	14:1
Piston Speed (60Hz)	32.5 ft./sec. (9.9 m/sec)
Bearing Main: Type	Replaceable, Precision
Cylinder Block	Cast iron with wet, replaceable cylinder liners
Cylinder Head Material	Cast iron
Crankshaft Material	Forged steel
Brake Mean Effective Pressure (BMEP)	Standby: 269 psi (1854 kPa) Prime: 244 psi (1682 kPa)
Rated RPM (60 Hz)	1800 RPM
Max. Power At Rated RPM (with fan)	Standby: 1135 hp (846 kW) Prime: 1030 hp (768 kW)
Governor: Type	Electronic
Frequency Regulation: Steady State	± 0.5%
Air Cleaner Type - All Models	Dry, Dual Element

<b>Amperage</b>				
Voltage	Phase	Power Factor	Continuous Amperes	
			Standby	Prime
120/208 Volt	3	0.8	2602	2082
277/480 Volt	3	0.8	1128	902

<b>Engine Electrical System</b>	
Battery Charging Alternator Ground Type	Negative
Volts	24 VDC
Ampere Rating	35A
Starter Motor Rated Voltage	24 VDC
Minimum Recommended Battery for 0 °C / Cold Cranking Performance	1280 CCA

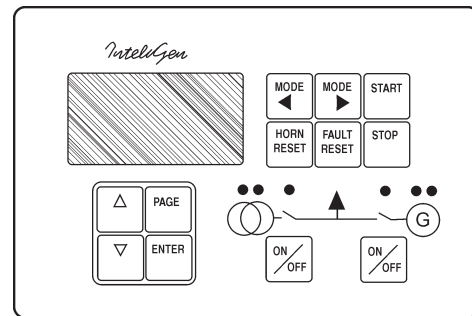
<b>Lubrication System</b>	
Type	Full Pressure System
Oil Filters	4 Spin-on, Full Flow
Oil Capacity with Filters	35 gal. (140.0 L)



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## Cooling System

Exhaust Manifold Type	Dry
Radiator Design	Standard horizontal discharge
Coolant Capacity - Engine and Radiator	53 gal. (201 L)
Water Pump Design/Type	Belt Driven, Centrifugal
Coolant Flow	235 gal/min (889.5 L)
Heat Rejection to Coolant (Standby)	27860 BTU/min (29.5 kW)
Fan Horsepower	42.7 hp (32.0 kW)



**Inteligen Digital Genset Controller**

## Fuel System

Recommended Fuel	ASTM-D975-No.1 or No. 2-D	
Filter Micron Size - 98% Efficiency	2	
Total Fuel Flow	99 gal./hr. (374.7 L/Hr.)	
Fuel Consumption		
Diesel Fuel @ % of Load	gal/hr	L/hr
25%	16.0	61
50%	26.2	99
75%	40.5	153
100%	54.7	207

## Digital Controller Features

- Large graphic back-lit LCD display 128x64 pixel resolution
- Automatic and manual starting and stopping
- Phase sequence supervision
- Automatic shutdown/alarm function
- Input frequency 50-60 Hz
- Parameters adjustable via PC or iG keyboard
- Predefined and user definable configurations available. One configuration includes set of inputs/outputs and parameters
- Adjustable parameters for each configuration
- 6 LED indicators
- Push buttons for simple control
- 4 programmable outputs (out of 20 functions selection)
- 4 binary configuration inputs
- Lamp test during start up
- Real time clock
- Sealed membrane panel to IP65
- 180 x 113 mm front panel mounted case
- Speed measurement from magnetic pickup
- Oil pressure, Coolant temperature, Battery voltage and Fuel level measurements
- Running Hour Meter
- All Generator metering, kVAR, kW, V1-V3, Hz, I1-I3, kWh, kVAh
- Generator under/over voltage alarm/shutdown
- Generator under/over frequency alarm/shutdown
- Over Current alarm/shutdown
- Warm up and cooling functions
- Pre-lubrication function with timers
- Adjustable crank attempts
- Data logging
- Remote communications (RS232/Modbus)

## Exhaust System

	Standby	Prime
Exhaust Temperature at Rated kW	895 °F (479.4 °C)	850 °F (454.4 °C)
Exhaust Flow at Rated kW	6160 cfm (174.3 m³/min)	5546 cfm (157 m³/min)
Silencer Type	Critical	
Maximum Allowable Backpressure	41 in/wc (10.2 kPa)	
Exhaust Outlet Size at hook-up	2 x 8 in.	

## Derating (60Hz)

The engine may be operated up to 5000 ft. altitude and 95°F ambient temperature at the Standby rating, without derating. For operation at higher altitudes and ambient temperatures, the power should be derated according to the following factors:	Altitude	Ambient Temperature
	Above 5000ft. derate at 4% per 1000 ft.	Above 95°F derate at 1% per 10°F



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## Optional Features and Accessories

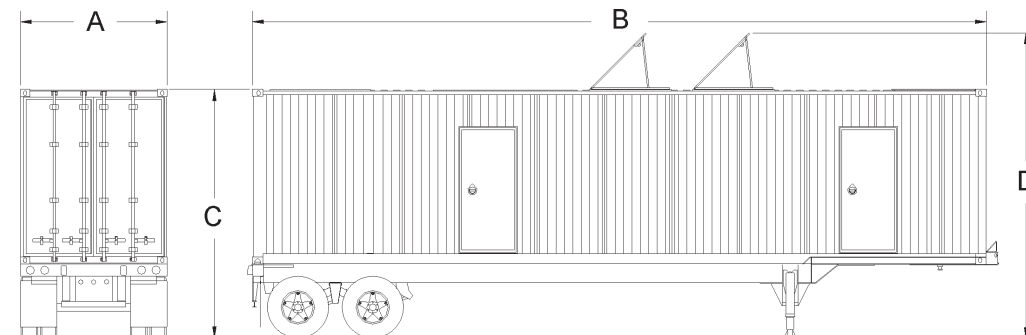
### Generator Set

- Genset-to-Genset Paralleling Control System
- Base Load-to-Utility Paralleling Control System
- Custom Outlet Panels
- Rotary Voltage Selector Switch (High Wye/Low Wye Voltages)
- Auxiliary Oil Reservoir with Level Control (15-gallon)
- Centrifugal Oil Filter System
- Oil Pan Heater with Thermostat
- Alternator Strip Heater
- AC Battery Charger with Shore Power Receptacle

### Container

- ISO Trailer Chassis (40 ft.)
- Double-wall Fuel Tank (900-gallon capacity)
- Fluid Containment
- Manual Fuel Valves (For Internal or External Fuel Supply)
- Entrance Ladder (6-Step, Aluminum Construction)
- Fueling Ladder (Aluminum Step Construction with Hand Rail)
- Interior Lights (AC Work lights)
- Custom Paint Colors (Artic White is Standard)

### SPECIAL OPTIONS AVAILABLE UPON REQUEST



40 ft Container

<b>Weight and Dimensions</b>			
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
96 in. (2,438 mm)	480 in. (12,192 mm)	163 in. (4,137 mm)	199 in. (5,054 mm)
Weight (Wet)*		37,760 lbs (17,128 kg)	
Weight (Wet with trailer)*		44,500 lbs (20,185 kg)	

\* Weight is approximate. Wet weight does not include fuel.

Backfeed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device. Specifications are subject to change without notice.

Your MQ Power dealer is:



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